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MAXIMUM MEASURED GROUND OVERPRESSURES FROM A-12 AT
65,000 FEET DO NOT EXCEED ONE POUND PER SQUARE FOOT. THIS
IS EQUIVALENT TO CLOSE RANGE THUNDER AND POSSIBLY SOME WINDOW
DAMAGE. INCREASED ALTITUDES REDUCE OVERPRESSURES AND
CORRESPONDING EFFECTS. NO PROBLEMS ANTICIPATED DUE TO
SONIC BOOMS DURING OVERFLIGHTS OF DAMS ON TRAINING MISSIONS.

END OF MESSAGE

25X1A **ASD/OSA**

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HANDLE VIA CONTROL SYSTEM

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MEMORANDUM FOR:

Deputy Director for Science and Technologs

SUBJECT:

Sonic Boom Measurements

1. Sonic boom measurements of CXCART aircraft are being recorded in the vicinity of on an opportune, non-interference basis by Lockheed personnel using Lockhee ground measuring equipment. These measurements are being taken compatible with the current flight test and operational readiness program. Recent sonic boom overpressures recorded of SKYLARK aircraft in the SKYLARK environment, i.e., 2.1 Mari and 78,000 feet altitude, are 0.75 pounds per square foot nominal and a minimum of 0.3 nounds per square foot to cir ci overflight of the recording station. This nominal value i approximately double the volume theory but lower than the lowest overpressure recorded for the B-58 aircraft Et comparable altitudes and lover speeds. Luring the Chimbert portion of the flight profile at approximately 1.5 hach an 30,000 feet altitude, overpressures as high as 4-5 passings per square foot have been recorded. Lateral displacement of the flight path from directly over the recording statio results in lower overpressures than those quoted above. Although the 2.8 Mach and 78,000 foot overpressures and comparatively small, this magnitude will definitely be heard on the ground. All of the above data have been transmitted to the FAA and NASA. (See Attachment)

2. It is recommended that this Agency conduct me specific sonic boom measurements tests for the Supersonic Transport Program but continue to forward all results of A-12 overpressure recordings to the FAA/NASA for information. Future measurements will also include overpressures records during the deceleration phase of the flight profile.

> JACK C. LEDFORD Colenel USAT Assistant Director (Special Activities)

OXCART SECRET

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